

ROUNDUP

Lyndon B. Johnson
Space Center

NASA

May 18, 1979 Houston, Texas

Vol. 18, No. 10

After 37 years Sjoberg moving to OAO

Center Deputy Director Sigurd A. Sjoberg retires from federal service effective May 18 after 37 years with NASA and its predecessor the National Advisory Committee for Aeronautics.

Sjoberg will join OAO Corporation as

Director and General Manager of OAO Houston Operations. OAO is an engineering and computer software firm based in Beltsville, Maryland.

Sjoberg, 59, joined NACA in 1942 as an aeronautical engineer. He holds a BS

in aeronautical engineering from the University of Minnesota.

His NASA career has spanned high-performance aircraft research to manned spaceflight programs up to the Space Shuttle. He came to Houston in 1962 when the Center was relocated from Hampton, Virginia. He was named JSC deputy director in 1972, and had been director of flight operations since 1969.

"I've had as interesting and fruitful career as anyone could hope for," said Sjoberg. "Those years of involvement in our first ventures into space and manned exploration of the Moon are a part of my life that would be hard to match in any other field."

Sjoberg and his wife Elizabeth have three sons: Eric, 31, Stephen, 29, and Robert, 25.

A new JSC deputy director has not yet been named.



With Christopher Kraft, Jack Kinzler, and Ken Kleinknecht during Skylab sunshade deployment in 1973 (NASA Photo)



Sjoberg portrait—1967

Bland to investigate Three Mile Island incident

JSC's William M. Bland, Jr., is on special assignment in Washington to the President's Commission on the Accident at Three Mile Island.

Bland is serving on the technical staff, one of three groups formed to support the 11-member Commission created by Executive Order April 11. The Commission is to report its findings back to the President October 25, and Bland will be travelling between Houston and Washington during that period.

"We are trying to establish the cause of the accident," Bland said. A list of his group's official duties includes evaluation of operator training, equipment maintenance, quality assurance inspection and audits, control room displays, and instrument calibrations.

"And it will probably broaden as we

go," Bland said.

Control room displays and operator training have already been cited by the Nuclear Regulatory Commission as major causes of the incident at Three Mile Island.

Before a space flight, mission equipment is tested in conditions as similar to space as possible. Bland's job, through the Apollo program and now with the Space Shuttle, is assuring that equipment meets established quality, reliability, and safety levels.

Bland is Deputy Director of Safety, Reliability, and Quality Assurance at JSC. He started with the space program with NASA's predecessor NACA (The National Advisory Committee for Aeronautics) in 1947, and has served on the Mercury, Apollo, and now the Shuttle programs.



William Bland

The President's Commission identified its five main tasks May 10: event identification, system safety, public health, public information, and institutional factors—the political, social, and economic environment.

"Initially I will be assisting on Task One," Bland said. "At the same time I will be working on system safety."

The Commission's staff director is Bruce Lundin, former NASA Lewis Research Center Director.

Bland received a call from Washington May 1, and was in his new office in the capital by May 7. He has already made one trip to Three Mile Island, "getting orientation briefings," interviewing people from the area, and doing preliminary investigations, "although in some areas the radiation level is such that we can't get in for awhile," he said.

The Commission's objectives include a technical analysis of the event and its causes, an assessment of emergency preparedness, how the public's right to information was served, and how future incidents should be handled.

STS Update: Cluster tests delayed, R&D engine damaged

At *Roundup* press time the fifth static firing of the Main Engine Test Article which was scheduled for May 15 at the National Space Test Laboratories has been postponed.

The delay is to allow program managers time to assess the cause of a failure May 14 during a test firing of a research and development engine at Santa Susana, California.

The engine was damaged when an imbalance of normal fuel to oxidizer ratio (LOX-rich) resulted in a fire. A hydrogen fuel nozzle broke loose after cutoff sequence was initiated.

Three flight-type main engines will be used in the cluster tests. The main propulsion system that will be tested includes the engines, a simulated orbiter midbody, and a flight-type fuselage to which the engines are fitted. Propellants are fed to the engines from a flight-type external tank.

At *Roundup* press time, no new date has been set for the test firing. NASA and contractor engineers are currently examining test data from the 0201 engine accident.

Modifications continue at the Cape on Orbiter 102 (Columbia) in preparation for a four-day power-up test beginning May 21. NASA and contractor technicians are continuing to apply thermal protection tiles to the Shuttle vehicle.

Orbiter 101 (Enterprise) is undergoing

check-out with launch facilities on Pad 39A. This should continue until early June. Then 101 will be ferried back to Palmdale, California.

The three engines for the first orbital flight should be delivered to the Cape in the May/June time frame.



Enterprise roll-out at the Cape

Carter on space

(President Carter reiterated his space policy in a message to Congress March 27.)

"My space policy encourages continued scientific investigation of the Universe. We will conduct a vigorous program of exploration to understand the origin and evolution of the Solar System.

"The space telescope—to be launched and serviced by the Space Shuttle—and free-flying satellites will usher in a new era of astronomy. These new eyes will vastly expand our knowledge and understanding of the Universe.

"It is important that we maintain our world leadership in space. My policy is designed to encourage further advances in our use and exploration of space.

"We will provide adequate resources to maintain that leadership."

(The entire message can be found in the Congressional Record for March 27 in the House section, Pages 14-22.)

Small Business Week May 13 - 19



RECOGNIZING SMALL BUSINESS WEEK the Center annually awards certificates to procurement personnel for their outstanding contribution to small business. Above, James Neal, Director of Procurement, with H. T. "Chris" Christman standing by, presents certificates to Edna McAnelly for "the largest number of individual set-asides processed by a single buyer," and to Mike Ballas, whose efforts "resulted in the largest dollar value of individual set-asides." Set-asides are actions that reserve competition for small businesses only. Others deserving honorable mention for their small business efforts are Rod Etchberger, Carol Myers, and Dorothy Newberry. (NASA Photo)

Bulletin Board

Please limit announcements to 10 lines, double-spaced copy

Automotive Club Reunion

All former automotive mechanics students are invited to a **reunion/club organization meeting** May 22 at 5 p.m. in Room 215 at the Rec Center. The club will discuss ground rules and activities and elect officers. Any interested persons are invited to attend. There will be light refreshments.

Stars and Planets Forever

The **JSC Astronomical Society** will have its monthly meeting May 24 at 7:30 p.m. at the Lunar Science Institute, NASA Road One. Topic this month will be the planet Saturn. For more information call Don Halter, x-2213.

Vietnam Veterans' Week May 28 - June 3

The President is proclaiming May 28 - June 3 Vietnam Veterans' Week, recognizing airmen, sailors, marines, and soldiers for their battlefield performance in Southeast Asia. "Whereas the Nation has never fully expressed its gratitude to those who gave a substantial portion of their lives to serve in such conflict," reads the resolution, and it asks groups and organizations to observe with appropriate activities. Next issue, *Roundup* will run a special feature on Vietnam war veterans who work at JSC today.

Computer Compositions on a Music Synthesizer

A homebrew computer music synthesizer will be the topic of the **JSC Computer Hobbyist Club** meeting May 21 at the Computerland Store, 17647 El Camino Real, Clear Lake City (just north of Jack in the Box) at 5:30 p.m. Note the **change in time and place** for this meeting only. The club meets the first Thursday and third Monday of each month from 5 - 7 p.m. at Gilruth Center.

"The Backbone of America"

The Active Corps of Executives and the Small Business Administration will sponsor a **workshop on the Basics of Running a Small Business** at the Houston Lighting and Power, Electric Living Center, 2121 W. Loop South, Houston, May 23 & 24, in the evening. Call 226-4945 for more information.

Help Available after Recent Flood Damage

The Small Business Administration has opened three offices where **applications for loans** as a result of the recent flood damage will be taken. The disaster declaration covers Harris, Liberty, Montgomery, Orange, Jefferson, Hardin, and adjacent counties. The offices are in Beaumont, Conroe, and on North Loop West in Houston. Call 226-4341 for further information.

On Sale at the JSC EXCHANGE STORE

Dean Goss tickets - \$10 single
 \$20.00 couple (Reg. \$14.50)
 ABC Theatre tickets - \$2 each
 General Cinema tickets - \$2.40 each
 Six Flags Over Texas tickets
 \$7.25 for one day (Reg. \$9.25)
 \$9.25 for two days (Reg. \$13.95)
 Astroworld tickets - \$7.25 (reg. \$9.25)
 Magic Kingdom Cards - Free

JSC Retiree to Run Knitarama Event

Evelyn L. Wellberg, who retired from Personnel in 1973 is running a special show June 1 and 2 with demonstrations and door prizes at her Knitarama Store, 516 Missouri, South Houston. Wellberg says she sells the machine, gives instructions, does custom knitting, and is the distributor for Toyota Knitting Machines in this region. "You don't have to buy anything on sale when you have a knitting machine," she says describing \$500 dresses she's made for \$25. For more information call 946-4264. Wellberg worked with military employees in Personnel.

Sign up now for spring sports

"We lost 23 to 24. Just 23 to 24! First we had 'em 14 to 6, and they came back up. Then we had 'em 20 to 16, and they came up on us again. If we could just keep 'em from ever coming up to bat." (Overheard in a Building 4 stairwell)



Softball Sign-up

The next softball season (men's, women's and mixed) is scheduled to start June 16 and run through August 31. Present team captains will be mailed roster forms and sign-up information. Others may pick up materials at the Gilruth Center. Sign-up is May 28-June 6. EAA teams pay \$50, Non-EAA teams pay \$100.

Volleyball Signup

The present "fun" mixed volleyball season will soon be over. Following this warm-up league the regular competitive mixed volleyball season will be run. Sign-up is May 28-June 6 with the league starting June 16. EAA teams pay \$45, Non-EAA teams pay \$85. Pick up material at the Recreation Facility.

FBA Softball Tournament

Civil Service teams may also enter the Federal Business Association Slow-Pitch Softball tournament to be held at JSC June 23-24. Sign-up is June 11-18. Roster forms will be at the Recreation Facility Double elimination. Men's & Women's brackets. Participate and represent JSC competing with the other Federal government agencies of the

Houston area. Team entry \$50 (JSC Civil Service teams \$25).

Runners

The Gulf Coast AAU 5 km Championships were held recently at Gilruth Rec Center. Over 200 runners took part in the event hosted by Bay Area Running Club. Future events to be held at Gilruth Center are:

- A. Intercenter Running Competition - October
- B. BARC Fun Run - November 24
- C. BARC Fun Run - December 29

For more information on BARC events or on membership, contact the BARC-JSC representative Rick Barton x5181.

Sports & Tournaments

Through JSC's affiliation with the Houston-Galveston Area Industrial Recreation Council (HGAIRC) NASA Teams may participate in a number of sports activities. Entry forms for two coming tournaments, tennis and slow-pitch softball, are now available at the Recreation Facility.

For the years they've served

Length of service awards went to 34 employees last month:

35 years: Edward B. Petrash, George E. Griffith, Eziaslav N. Harrin, Thomas U. McElmurry

30 years: Herman P. Fisher, Daniel G. Ramirez, Gene L. Benjamin, Rufus Hicks, Lemuel S. Menear, James E. Bost, Kenneth J. Hancock, Bailey R. Chaney, Donald E. Stullken, Arthur H. Hinners, Jr.

25 years: Daniel G. Nichols, Charles J. Gardner, James T. Heffernan, Harrison F. Rees, Bennett W. James, John E. McLeaish, Billie Schmidt, Oscar E. Krause, Richard A. Perkins, William D. Lindsey, Edward W. Van Riper, Elree J. Wilkinson, Fred T. Pearce, Jr., Edward H. Cawley, John C. Sloan, John D. Overton, Ernest R. Hillje, Joyce H. Koplin, Arturo T. Lozano, Willard L. Steele.

Think Tank stumps 39; tie for first

"Neatness and conciseness counted," in judging this issue's Think Tank solutions, says our Puzzle Editor.

We have a tie for first place: **Carl Grossman** for the best verbal answer, and **Harley Stafford** for best diagrammatical (shown here). Note the symmetry

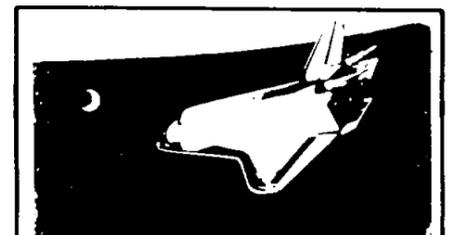
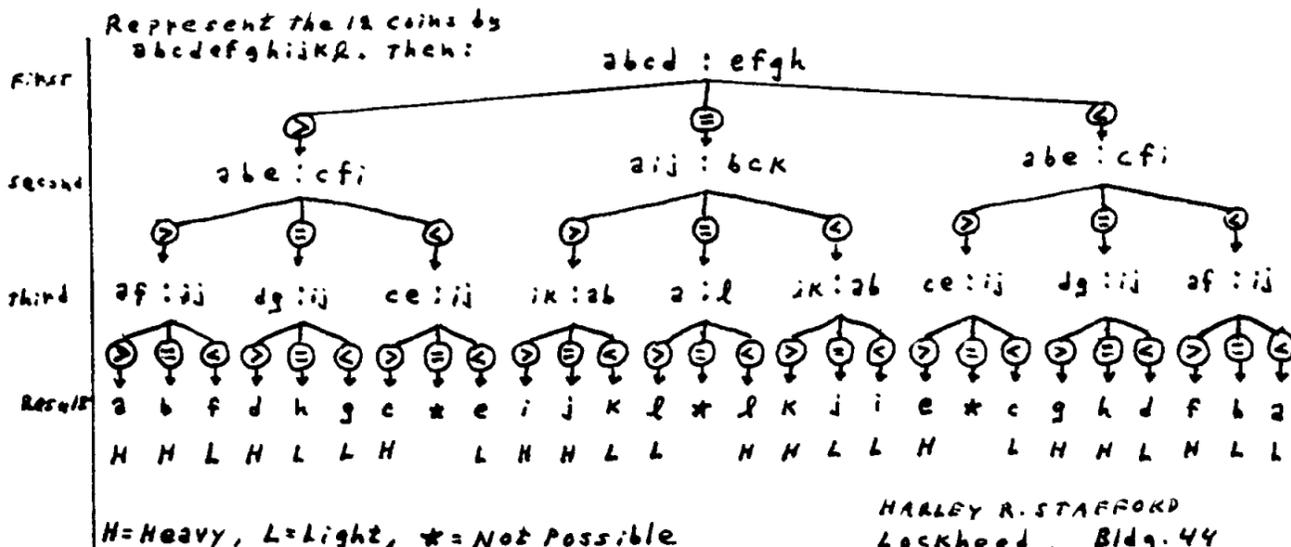
on all the lines.

Runners-up are **Sonja Hacker, John Bain, John Plail, Albert Kelly, and D. Stephen Yeadon.**

There were 39 entries. PRIZES: Your choice of old issues of

Roundup dating back to 1961. First place takes five issues; runners-up take three. Current and past winners can come by the *Roundup* office on Fridays at 3:00 to claim prizes.

Watch next issue for the next Think Tank puzzle.



The *Roundup* is an official publication of the National Aeronautics and Space Administration Lyndon B. Johnson Space Center, Houston, Texas, and is published every other Friday by the Public Affairs Office for JSC employees.

Writer/Editor: Kay Ebeling
 Photographer: A. "Pat" Patnesky

She is a stable influence in a hectic media office

This issue *Roundup* takes a special interest in writing about the Secretary of the Month. She answers *Roundup* phone calls, siphons through *Roundup* mail and Think Tank puzzle solutions, and calms an occasional crazed public information officer (or *Roundup* editor).

She is Julie Mattheaus, and she has worked in the Public Affairs Office four years, serving as branch secretary since February of 1978. According to branch chief John McLeaish, Mattheaus provides "a stable influence on the clerical and administrative workload" in the branch.

"She has shown exceptional qualities of reliability, initiative, and mature judgment," he adds.

The Newsroom is a busy office with as many as 10,000 phone calls coming in per month. Media representatives from foreign countries, correspondents from the three television networks, and reporters from national magazines and an assorted variety of news organizations come through the office for interviews, answers to questions, news releases, photographs, and with other requests.

Mattheaus is usually their initial point of contact. Because of her thorough knowledge of the inner workings of this office and its interactions with other JSC organizations, transitions from media requests to service "have been unusually smooth," McLeaish says.

She has adapted the bi-weekly conglomeration of Swap Shop ads into a clean printout from the word processor, a machine she recently mastered. She has streamlined the media interview logs and news release files.

McLeaish says, "Julie is innovative and complete in her administrative management. She is poised and punctual with a positive attitude on the job."

Julie Mattheaus is JSC's outstanding secretary for April.



Julie Mattheaus
Outstanding Secretary

He demonstrates aptitude with communication hardware

Karl Stambaugh, a senior in Electrical Engineering at the University of Cincinnati, has been on assignment as a Co-op in the Tracking and Communications Development Division, working with the test program of Shuttle orbiter communications systems.

According to his associates, he demonstrated an ability to configure and operate sophisticated communication system hardware and specialized test equipment "which normally requires significantly more educational background and experience."

Stambaugh prepared the system test plan for Shuttle end-to-end audio channel performance. He also assisted test engineers in reducing and analyzing data

Week of May 21 - 25

MONDAY: French Onion Soup; BBQ Sliced Beef; Parmesan Steak; Spare Rib w/Kraut; Chili & Macaroni (Special); Ranch Style Beans; English Peas; Mustard Greens. Standard Daily Items: Roast Beef; Baked Ham; Fried Chicken; Fried Fish; Chopped Sirloin. Selection of Salads, Sandwiches and Pies.

TUESDAY: Split Pea Soup; Meatballs & Spaghetti; Liver & Onions; Baked Ham w/Sauce; Corned Beef Hash (Special); Buttered Cabbage; Cream Style Corn; Whipped Potatoes.

WEDNESDAY: Cream of Tomato Soup; Cheese Enchiladas; Roast Pork w/Dressing; BBQ Link (Special); Pinto Beans; Spanish Rice; Turnip Greens.

THURSDAY: Beef & Barley Soup; Roast Beef w/Dressing; Fried Perch; Lasagne w/Meat; Chopped Sirloin; Chicken Fried Steak (Special); Whipped Potatoes; Peas & Carrots; Buttered Squash.

FRIDAY: Seafood Gumbo; Fried Shrimp; Baked Fish; Beef Stroganoff; Fried Chicken (Special); Okra & Tomatoes; Buttered Broccoli; Carrots in Cream sauce.

Week of May 28 - June 1

MONDAY:
Holiday

TUESDAY: Navy Bean Soup; Beef Stew; Liver w/Onions; Shrimp Creole; Smothered Steak w/Dressing (Special); Corn Cabbage; Rice; Peas.

WEDNESDAY: Clam Chowder; Roast Beef; Baked Perch; Chicken Pan Pie; Salmon Croquette (Special); Mustard Greens; Italian Green Beans; Sliced Beets.

THURSDAY: Beef & Barley Soup; Beef Tacos; Diced Ham w/Lima beans; Stuffed Cabbage (Special); Ranch Style Beans; Brussels Sprouts; Cream Style Corn.

FRIDAY: Seafood Gumbo; Fried Shrimp; Deviled Crabs; Ham Steak; Salisbury Steak (Special); Buttered Carrots; Green Beans; June Peas.

DON'T GET
ROPED IN!



BY
RISING
COSTS...

SEND YOUR COST REDUCTION
REPORT ON A JSC 1150 FORM
COST REDUCTION OFFICE NOW!

Cartoon by Russ Byther

Roundup Swap Shop

Property & Rentals

Rent: Beautiful 2 bdrm apt on 9th floor of Galveston Beachfront, hi-rise condo, comp furn, cable TV, tennis, pool. \$55/day, \$285/week. 488-4276.

Bolivar Beach cottage on Gulf, available to responsible adults, \$35/day. Horton x3734.

Vacation Lake Livingston Cape Royale a beautiful resort community. Charming custom 3-2-1, compl, furn home nestled among trees by the water, rent by wk/mo/yr. 488-4487.

Rent: Waterfront vacation retreat by marina at Cape Royale on Lake Livingston, new 3-bdrm, tennis, pool, golf, boat launch, by week. 488-3746.

Lease: New Kings Row Townhome, 2-2-1/2-1-1cp, 1569 sq. ft., fireplace, encl. patio, private deck overlooking pool. Immediate occupancy, no pets. \$495/mo. (after 5) 333-2636.

Texas vet tracts and ranchettes. 482-7697 after 5.

Lease: Forest Bend, 3-2-2A, fireplace, separate dining room, mini-blinds throughout, enclosed patio, \$450/month. Reed x-4171, 481-8639 after 5.

Cars & Trucks

78 Chevy 1/2-ton Custom Deluxe PU, 350 V8 (burns regular), auto, power, A/C, AM/FM cassette stereo, low miles, under warranty, exc cond, \$5300. Snyder x2691.

74 Ford LTD 4-dr, A/C, cruise control, exc control, \$1600. Robbins x5039 or 488-0189.

73 Ford 1/2-ton PU, manual, air, PS, PB, \$1600. 4 mud grip truck tires size 11-15LT, \$120. 482-7546.

72 Chevy Caprice, 4-dr, good tire, new battery, new exhaust system, new A/C. Chaney x2366 or 488-0518.

69 Ford Fairlane SW, 351 engine, automatic, disc brakes front, very good mechanical cond, \$700. x2313 or 488-7032.

78 Compact 18' mobile traveler mini motorhome, radio, heater (dash and LP) A/C (dash and roof), range and oven, refrigerator (LP or electric), self contained, sleeps 6. 337-1160.

64 MGB, mint cond, \$2500 or best offer. 941-6996.

75 Corvette, T-top, blue, 4-speed, original owner, new exhaust, 56,000 miles, best offer. 554-2385 after 5.

76 Monte Carlo, stereo, many extras, low mileage exc cond, \$4295. 488-1042.

76 Malibu Classic, auto, A/C, PS, PB, AM/FM stereo, pick up payments, \$138/month. Martha 736-2061 after 5:30.

76 Ford Explorer PU, A/C, 6 cyl, std, low mileage, good gas mileage. Stokes x2557.

'71 Chevy Impala, 4-dr. sedan, PB, PS, A/C, AM radio, clean \$1500. 941-8102.

Household Articles

Contemporary dinette set, 42" round table with 18" leaf and 4 chairs, exc cond. 486-4790 after 6.

Air Conditioner, Sears window unit, 6000 BTU/115 volt, used very little, \$150. Handley x2271 or 482-7041. Heathkit 25" TV in cabinet, needs repair, \$25. 488-6369.

Victorian Antique wash stand, marble top, 18-1/4 x 36-1/4. 8' long custom built Shaw couch, 3 cushions plus side pillows. 333-2778.

Baby swing \$5, car bed \$5, SCUBA pro fins \$10, booties \$5, gloves \$5, electric guitar \$25. 333-5510.

14 unused doors, \$20 each; 2 hollow cores, \$5 each; panels, \$10 each; Frosted glass table top, 42" diameter, \$15; Hoover floor buffer, \$15. 334-3370.

Baby bed, exc cond, \$35. Fullerton 488-5782.

GE built-in electric oven for 27-inch wide cabinet, avocado, good cond, \$50. 488-2318.

Girl's 5-piece French provincial bedroom; metal frame for canopy; \$300. Call after 5, 946-2298.

Pets

AKC registered collies, available in two weeks. Sauer x2759 or 554-6290 after 5.

German Shepherd puppies, seven weeks old, temperament of parents more suited for pet than guard dog, free to good home. 474-2906.

Cycles

77 Honda GL1000, clean, low miles, extras, \$2650. 643-3620.

from orbiter direct communication channels.

In addition, he prepared a technical summary of a special investigation explaining why increases in frequency deviation on the carrier did not provide the expected improvement in system performance.

Stambaugh's contributions included design and modification of electronic circuits; for example, he designed acquisition control circuits in the orbiter breadboard receiver system for tracking and data relay satellite Ku-band frequency channels.

His attitude, enthusiasm, and the quality of his work earned him the Outstanding Co-op award for April.

Ads should be under 20 words, double spaced, typed or printed, one ad per person. Deadline for submitting or cancelling ads is 5:00 p.m. the first Wednesday after publication. Send ads to AP3 *Roundup*, or deliver them to the Newsroom, Building 2 annex. No phone-ins, please. Swap Shop is open to JSC federal and on-site contractor employees for non-commercial personal ads. Goods or services must be offered as advertised without regard to race, religion, sex, or national origin.

Raleigh small girls bike, color blue, exc cond, lightweight, \$49. Karen Erickson 488-1901.

74 Wellcraft 210 nova, trailer, compass, depth sounder, extra prop, new battery, and more, good cond. Dick x3665 or 334-1410.

Stereos & Cameras

AM radio from 75 Ford Granada, good cond. Parker x4241.

Like new 35 mm TLS with case, \$100 and Polaroid SX-70 with leather case. 334-3495.

Musical Instruments

Hammond M-100 organ with bench, \$650. Jones x3803 or 471-2638.

Trumpet, silver Schilke, immaculate cond, \$435. Karen x5418 or 486-9343 after 4.

Bach trumpet, like new with case and mouthpiece, \$350. 331-4513.

Miscellaneous

Royal Typewriter, manual, office type, white, exc cond, \$45. 334-5949 after 5.

Utility trailer for rent 6' x 8' no hitch provided \$5/day, \$25/week. Tex Ward x2651.

3-burner Coleman stove, \$20; D78-14 tire on rim, used 2000 miles, fits AMC Hornet, \$35; 4' x 5' Ward's metal storage shed, \$40. 485-6423.

3' deep x 12' diameter above ground round swimming pool with ladder and oversized sand filter, \$60. 488-4333.

45-piece setting, Noritake Stoneware ("Mountain Flowers" pattern). 488-4576 after 5.

Family membership Bay Area Racquet Club, \$300. Moore x3606.

Most of the hardware for a 16' roll-up garage door, Free. McKinney x2913 or 488-2764.

Black and Decker Workmate, standard single height, new, \$30. 482-1635.

Carpools

2 more for 4 people carpool, nonsmokers, Parkview area of Pasadena to Bldg 1, 8:30-5. John Mitchell x3741.

Would like 4th member from West University to JSC for 8-4:30 shift, Krpec x3284, Gre-million x4271.

SwapShop is a free service to on site NASA and contractor employees. Limited space requires we limit ads to 20 words maximum, one ad per person. Type or print and double space copy on a full sheet of paper. Ads that do not follow these guidelines may not appear in SwapShop.

72 Yamaha 100cc, needs some mechanical work, combination dirt and street, \$100. 488-1326 after 5.

Bicycle, "Bianchi" folding type, 20-in. wheels, cost \$95, sell \$45. Handley x2271 or 482-7041.

74 Honda XR75, mint cond, helmet, extra pipe, skyway silencer, racing cam, low mileage, make offer. Steve Horton 334-2360.

Wanted

Black and white photographic film developing and printing equipment (enlarger) suitable for a beginner. Jim Shannon 485-1395 after 6.

Housing or bedroom accommodations for JSC summer interns. Needed for mid-May through end of August. Jan Gamer x3734 or x3735.

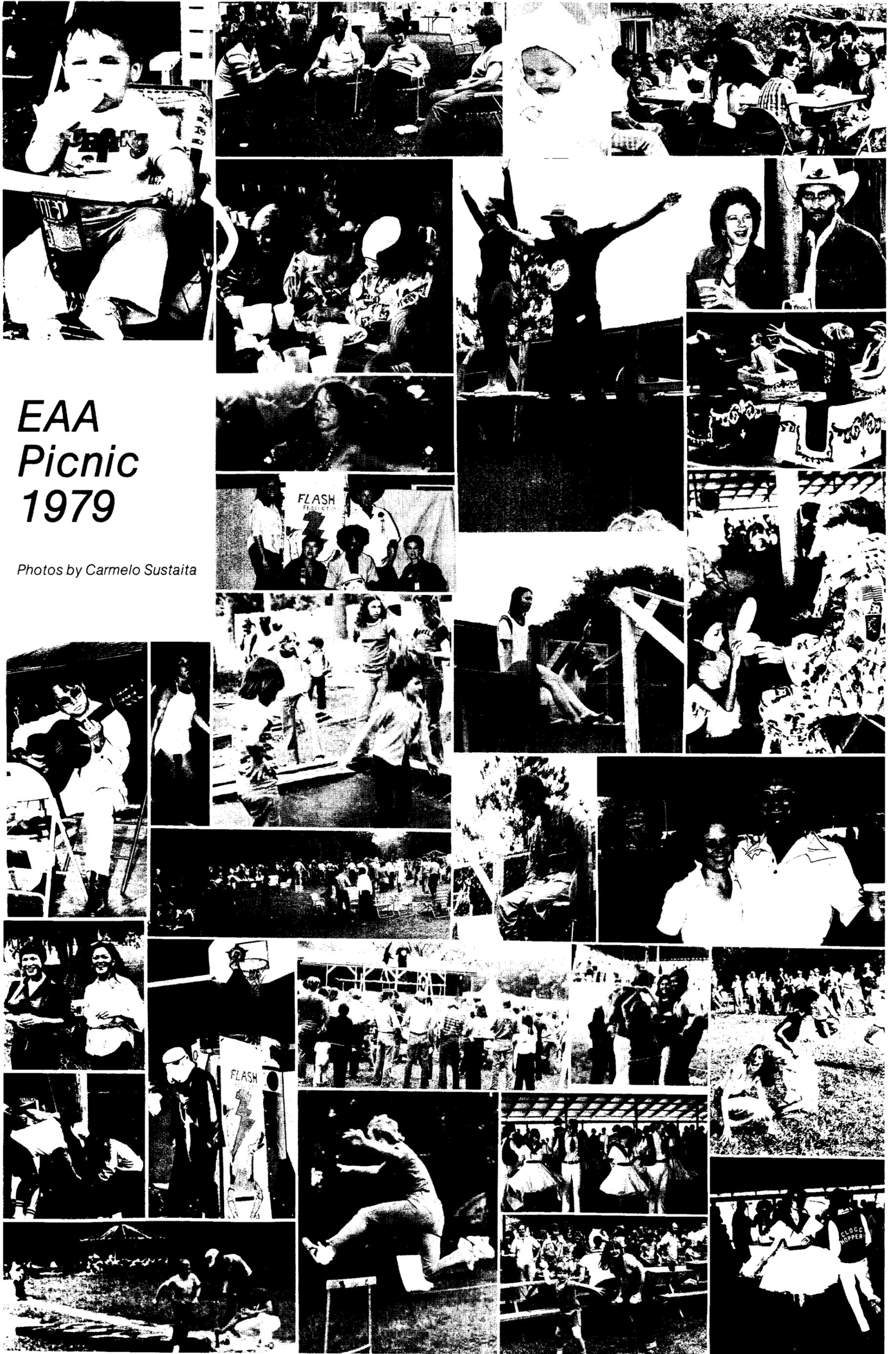
Man's bike, non-racer type preferred, \$15-\$25 price range. Doherty 488-0182.

Boats & Planes

77 Glastron SSV185 x/140 Johnson outboard drive on Sportsman trailer extras, 50 hours on rig. Schneider x4251 or 421-4749.

Sears 11' sailboat, used twice \$200. 485-6423.

75 Commander 112A, full IFR, Cent II autopilot, strobes, long-range tanks, 1100 TT, fresh annual. 649-3918 eves.



EAA Picnic 1979

Photos by Carmelo Sustaita